CLAIMS:

1.   A method of modifying data in an encoded data signal comprising :

a) a decoding step for decoding said encoded data signal and providing a decoded data signal,

b) a re-encoding step performed on a modified data signal and generating a coding error,

5   c) a prediction step for providing a motion-compensated signal from said coding error and comprising at least a subtracting sub-step between an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

characterized in that it comprises :

10   d) a first sub-step for adding an additional data signal to said decoded data signal, for providing said input data signal,

e) a second sub-step for adding said additional data signal to said coding error, said motion-compensated signal resulting from the motion compensation of the output signal of said second adding sub-step.

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2.   A method of modifying data in an encoded data signal comprising :

a) a decoding step for decoding said encoded data signal and providing a decoded data signal,

b) a re-encoding step performed on a modified data signal and generating a coding error,

20   c) a prediction step for providing a motion-compensated signal from said coding error and comprising at least a subtracting sub-step between an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

characterized in that it comprises a sub-step for adding an additional data signal to said

25   modified data signal, before said re-encoding step.

3.   A transcoding device for adding data to an encoded data signal, comprising :

a) decoding means for decoding said encoded data signal and providing a decoded data signal,

b) re-encoding means acting on a modified data signal and generating a coding error

c) prediction means for providing a motion-compensated signal from said coding error, and comprising at least subtracting means acting on an input data signal obtained at least from said decoded data signal and said motion-compensated signal, for obtaining said modified data signal,

characterized in that it comprises :

d) a first means for adding an additional data signal to said decoded data signal, for providing said input data signal,

e) a second means for adding said additional data signal to said coding error, said motion-compensated signal resulting from the motion compensation of the output signal of said second means.

4.   A transcoding device for adding data to an encoded data signal, comprising :

a) decoding means for decoding said encoded data signal and providing a decoded data signal,

b) re-encoding means acting on a modified data signal and generating a coding error,

c) prediction means for providing a motion-compensated signal from said coding error and comprising at least subtracting means acting on an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

characterized in that it comprises means for adding an additional data signal to said modified data signal, before the re-encoding means.

5.   A computer program product for a transcoding device for adding data to an encoded data signal, comprising a set of instructions which, when loaded into said device, causes said device to carry out the method as claimed in claim 1.

6.   A computer program product for a transcoding device for adding data to an encoded data signal, comprising a set of instructions which, when loaded into said device, causes said device to carry out the method as claimed in claim 2.